

ACAM Flight Report

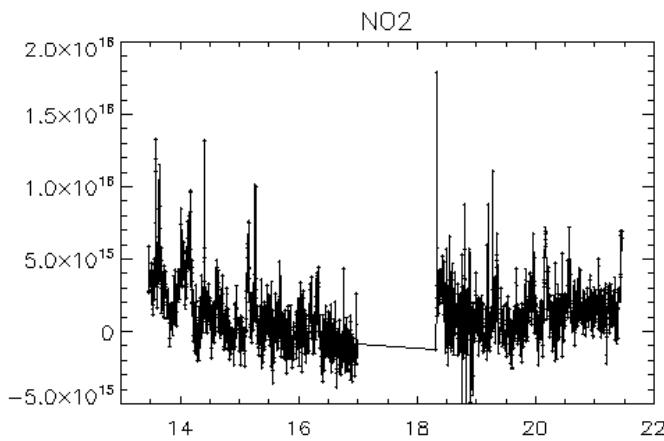
Flight #4 – 07/10/2011

Operations and instrument status

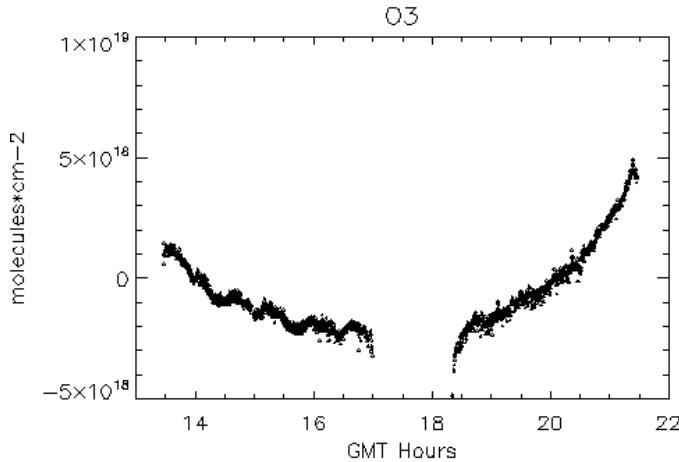
Instrument performance was normal. Timing of pre-flight cool down relative to take-off at Patrick Henry is sufficient to stabilize instrument temperatures by the time the aircraft reaches DC.

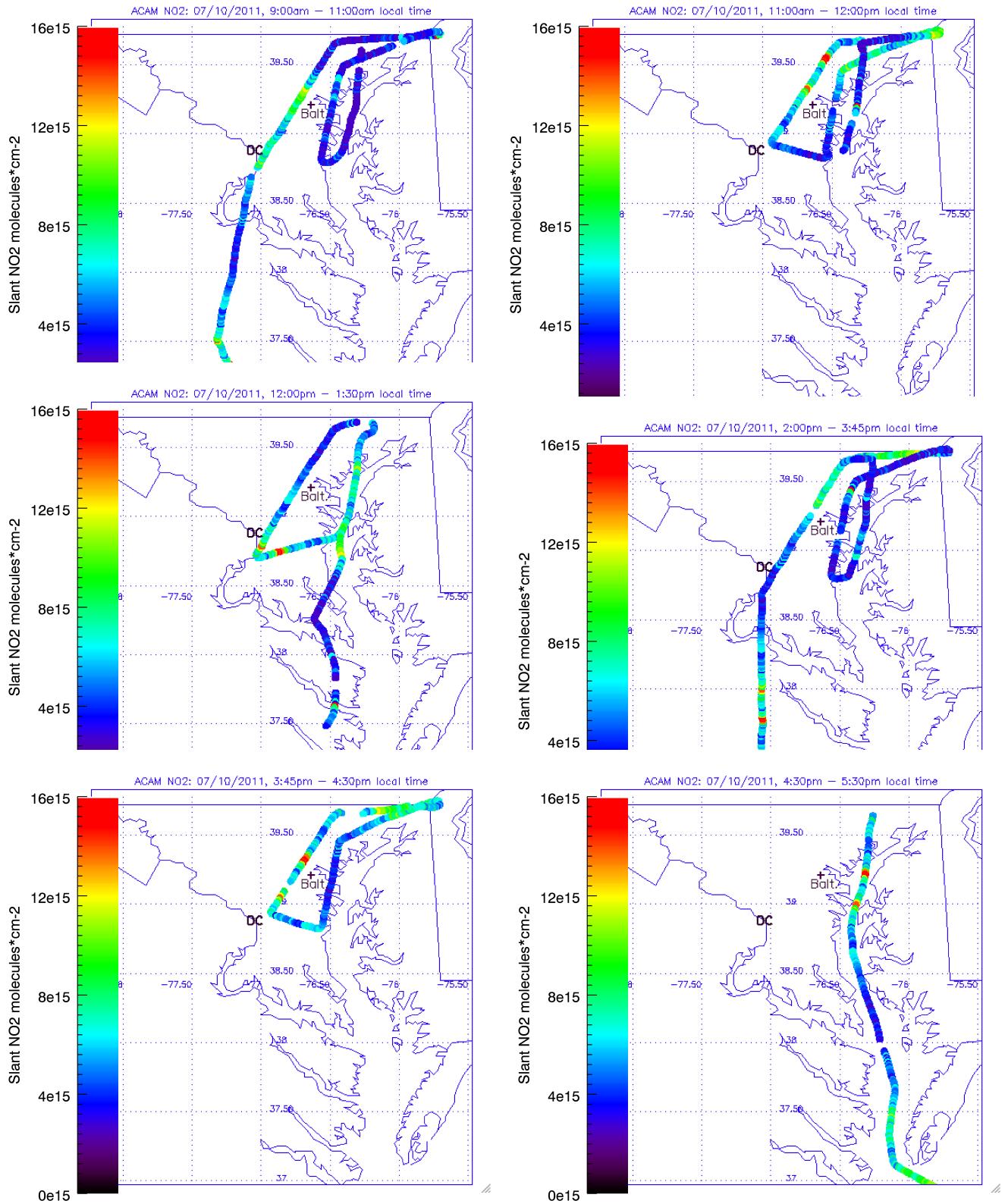
Science Summary

NO₂ measurements are shown below as differential slant column values relative to an average of spectra taken between the periods of 16.8 to 17.2 UTC and 20.6 to 21.0 UTC. Some structure is seen near the Richmond beltway on the trip up to DC and in the expected areas along 95 and MDE sites. In general the NO₂ levels are not as high as was seen during the first 3 science flights, especially in the afternoon. Peak values rarely exceeded 1×10^{16} molec.cm⁻² which is a factor of 2 lower than peak values on the 5th.



Time series plots of NO₂ and O₃.





Preliminary NO₂ data. Swath averaged resolution 7.5km x 1.2km